

ABSTRACT OF THE DISCLOSURE

It is an object to deliver contents in a different time from a real time through a digital artificial satellite and reproduce a program at a correct time, thereby transmitting information about contents for a long time by utilizing a limited time or transmitting information about contents in a small band. There is prepared a dummy packet including an adaptation field having the value of a dummy PCR for restoring a real time and time ratio information of a transfer time and the real time. During receipt, time information during output is obtained from the dummy PCR and the time ratio information. The time information during the output is added as a time stamp to a TS packet and is stored in a storage device such as a hard disk drive. During reproduction, data are read from the storage device by referring to the time stamp added during the recording. Consequently, the information about the contents transmitted in a different time base from the real time can be reproduced in a correct time base.